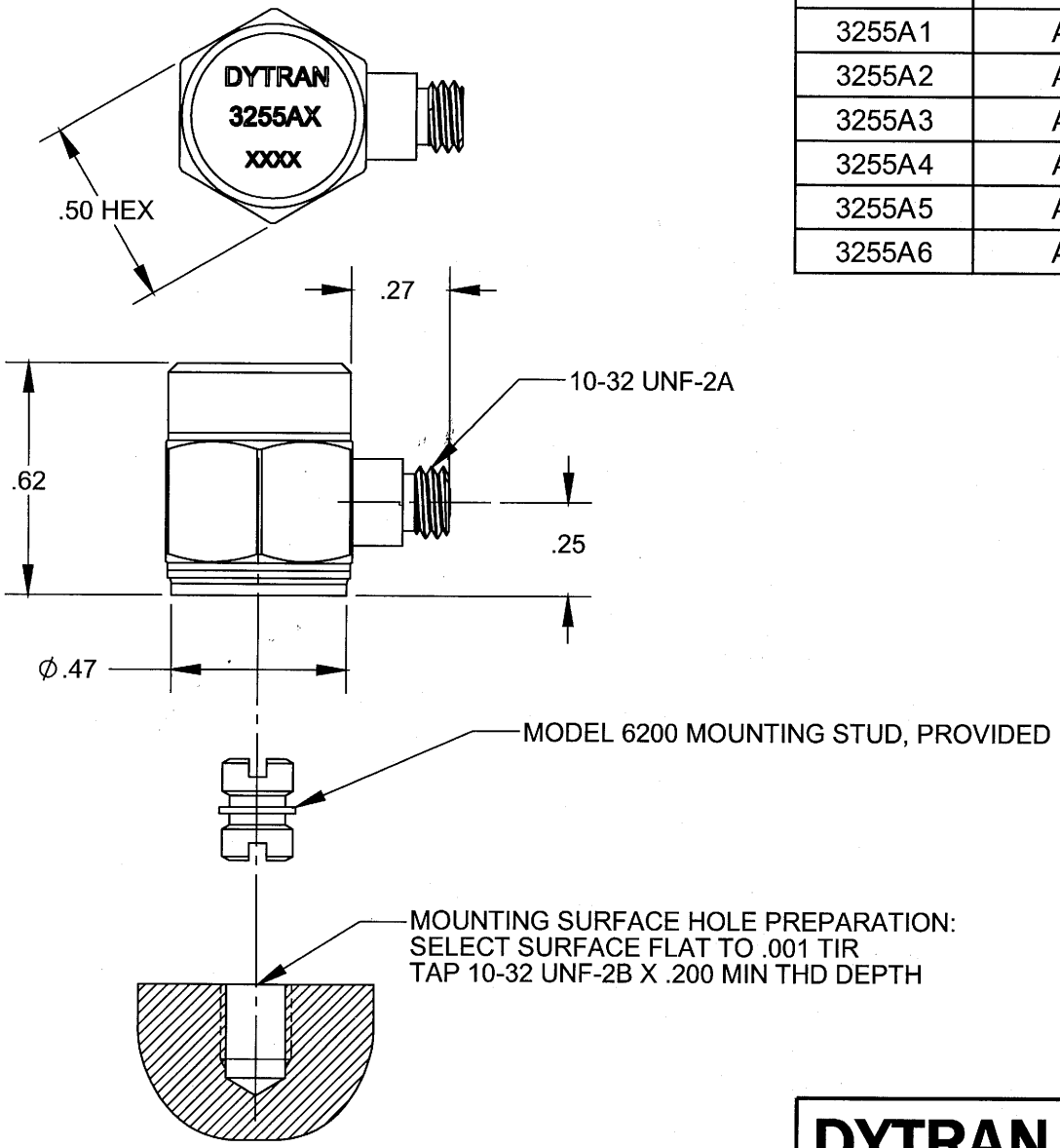
| MODEL | REV | ECN | DATE | SENSITIVITY |
|---|---|---|---|---|
| 3255A1 | A | 4535 | 2/5/2007 | 10 mV/g |
| 3255A2 | A | 4535 | 2/5/2007 | 100 mV/g |
| 3255A3 | A | 4535 | 2/5/2007 | 500 mV/g |
| 3255A4 | A | 4535 | 2/5/2007 | 50 mV/g |
| 3255A5 | A | 4535 | 2/5/2007 | 20 mV/g |
| 3255A6 | A | 4535 | 2/5/2007 | 200mV/g |




**DYTRAN MASTER**
INSTRUMENTS, INC. **ONLY IF IN RED** CHATSWORTH, CA

| | | | | | |
|---|---|---|---|---|---|
| SCALE 2:1 | REV - | DATE SEE CHART | ECN SEE CHART | | |
| DATE 2/5/2007 | PART NO. SERIES 3255A | | | | |
| DRAWN R.A. | CHECKED CEJ | MATERIAL TITANIUM ALLOY | | | |
| APPROVED CEJ 2-9-7 | NEXT ASSEMBLY | | USED ON | | |

TITLE
**OUTLINE / INSTALLATION DRAWING**
**3255A SERIES ACCELEROMETER**

DWG NO. 127-3255A

SHEET 1 OF 1

| Model Number 3255A1 | PERFORMANCE SPECIFICATIONS | DOC NO PS3255A1 |
|---|---|---|
| | IEPE ACCELEROMETER | REV A, ECN 7169,11/16/10 |

- **HERMETICALLY SEALED**
- **IDEAL LOW FREQUENCY RESPONSE**

| | | ENGLISH | | SI | |
|---|---|---|---|---|---|
| **PHYSICAL** | | | | | |
| Weight | | 0.35 | oz | 10.0 | grams |
| Connector | Type | 10-32 | | 10-32 | |
| Mounting Provision | Tapped Hole | 10-32 X .150 DEEP | | 10-32 X .150 DEEP | |
| Material, Housing/Connector | | Titanium | | Titanium | |
| Sensing Element | | Ceramic | | Ceramic | |
| Element Style | | Planar Shear | | Planar Shear | |
| **PERFORMANCE** | | | | | |
| Sensitivity, ± 5% [1] | | 10 | mV/g | 1 | mV/m/s$^2$ |
| Range for ± 5 Volts Output | | ± 500 | g | ± 4905 | m/s$^2$ |
| Frequency Response, ± 5% | | 1 to 10000 | Hz | 1 to 10000 | Hz |
| Resonant Frequency | | > 35 | kHz | > 35 | kHz |
| Broad Band Resolution | | 0.001 | Grms | 0.010 | m/s$^2$ rms |
| Linearity [2] | | ± 2 | % F.S. | ± 2 | % F.S. |
| Maximum Transverse sensitivity | | 5 | % | 5 | % |
| Strain Sensitivity @ 250με | | 0.002 | g/με | 0.02 | m/s$^2$/με |
| **ENVIRONMENTAL** | | | | | |
| Maximum Vibration | | 600 | Gpeak | 5886 | m/s$^2$ peak |
| Maximum Shock | | 3000 | Gpeak | 29430 | m/s$^2$ peak |
| Temperature Range | | -60 to +250 | °F | -51 to 121 | °C |
| Seal | | Hermetic | | Hermetic | |
| **ELECTRICAL** | | | | | |
| Supply Current Range [3] | | 2 to 20 | mA | 2 to 20 | mA |
| Compliance Voltage Range | | 18 to +30 | Volts | 18 to +30 | Volts |
| Output Impedence,Typ | | 100 | Ω | 100 | Ω |
| Bias Voltage | | 11 to 13 | VDC | 11 to 13 | VDC |
| Discharge Time Constant | | 0.5 to 0.8 | Sec | 0.5 to 0.8 | Sec |

**This family also includes:**

| Model | Sensitivity (mV/g) | Frequency Response, ±5 % (Hz) | Time Constant (Sec) | Operating Temp (°F) |
|---|---|---|---|---|
| 3225A2 | 100 | 1 to 10000 | 0.5 to 0.8 | -60 to +250 |
| 3225A3 | 500 | 1 to 10000 | 0.5 to 0.8 | -60 to +250 |
| 3225A4 | 50 | 1 to 10000 | 0.5 to 0.8 | -60 to +250 |
| 3225A6 | 200 | 1 to 10000 | 0.5 to 0.8 | -60 to +250 |

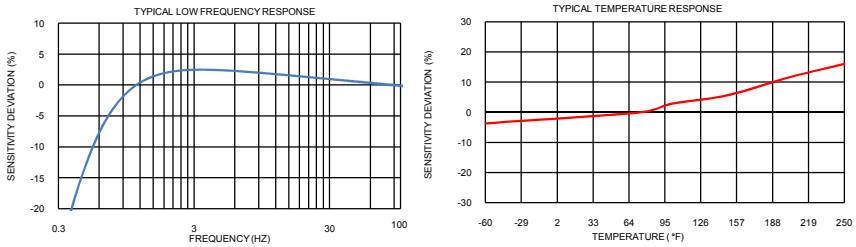
Refer to the performance specifications of the products in this family for detailed description

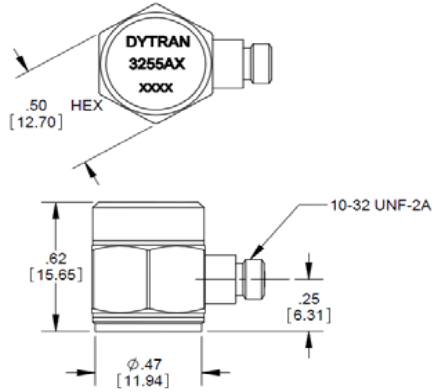
**Supplied Accessories:**

1) Accredited calibration certificate (ISO 17025)
2) Model 6200 mounting stud, qty 1

**Notes:**

[1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
[2] Measure using zero-based straight line method, % of F.S. or any lesser range.
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
[4] In the interest of constant product improvement, we reserve the right to change specifications without notice.




Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3255A for more information.

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